

## PATENTS

### CANADA

Can. 913486: Filter cigarette--with an arrangement for diluting smoke with air. Assigned to J. Plourde (1972).

### FRANCE

Fr. 1,425,729: Improvements to cigarettes (perforated filter connecting band). Assigned to Imperial Tobacco Ltd. (1965).

Fr. 2,032,311: Heat sensitive laminated ventilation flaps--in a cigarette paper or pipe bowl to assist. Assigned to KH Steigerwald (1970).

Fr. 2,206,663: Ventilated filter-tip for cigarettes--for reducing harmful products by dilution of smoke. Assigned to Bardou-JOB & Paulilhac (1974).

Fr. 2,408,315: Cigarette filter designed to dilute inhaled smoke--has weakening lines split open by pressure of smoker's thumb and index finger. Assigned to V. Flax (1979).

### GREAT BRITAIN

Brit. 1,039,554: Cigarettes (with perforated covering). Assigned to Imperial Tobacco Ltd. (1966).

Brit. 1,198,772: Cigarette mouthpiece ventilator. Assigned to Philip Morris Inc. (1970).

Brit. 1,232,456: Cigarette paper (ventilated). Assigned to Bardou-JOB & Paulilhac (1967).

Brit. 1,308,661: Air diluter element for cigarettes--grooved fibre rod allows radial air entry. Assigned to Cigarette Components Ltd. (1973).

Brit. 1,420,908: Ventilated cigarette filter tip--with ventilation index of paper wrap controlled by impervious coating of selected area. Assigned to British-American Tobacco Ltd. (1976).

Brit. 1,505,256: Mouthpiece for cigars, etc.--with ventilation groove to mix air with the smoke and reduce carbon monoxide content. Assigned to British-American Tobacco Ltd. (1976).

Brit. 1,533,568: Cigarette filter containing activated carbon--with ventilating holes in paper band. Assigned to British-American Tobacco Ltd. (1977).

Brit. 2,001,841: Ventilated filter cigarettes--made by joining filter with perforated wrapper to tobacco rod using perforated uniting band. Assigned to Molins Ltd. (1979).

Brit. 2,015,318: Ventilated cigarette filters using perforated cork web--having transverse stripes of adhesive between longitudinally extending main area of adhesive. Assigned to Molins Machine Co. (1979).

Brit. 2,065,091: Filter for removing nitric oxide, especially from tobacco smoke--comprises activated carbon containing absorbed C-nitroso compounds, especially aromatic compounds. Assigned to British-American Tobacco Ltd. (1981).

Brit. 2,065,444: Compacting tow to form cigarette filter--in tube where tow filaments are folded transversely across filter rod. Assigned to Filtrona Ltd. (1981).

Brit. 2,066,130: Ventilated cigarette manufacturing apparatus--adjusts position of resultant perforations relative to mouth end of cigarette to select required ventilation degree. Assigned to Molins Ltd. (1981). [Apparatus patents have not been generally included in this search unless they reference a particular means of ventilation/dilution.]

#### JAPAN

Jap. 56-15683: Tobacco filter has hole(s) for the introduction of air--into the smoke upstream of a catalyst for the oxidation and removal of carbon monoxide. Assigned to Matsushita Electric Industries KK (1981).

#### SOUTH AFRICA

S.Afr. 74-07647: Ventilated filter-tipped cigarette--has uniform porosity strip and envelope enclosing filter. Assigned to British-American Tobacco Ltd. (1975).

S.Afr. 78-01450: Cigarette filter with peripheral vent chamber--allowing mixing of majority of smoke with ventilating air. Assigned to J. Tilburg (1980).

#### SOVIET UNION

USSR 626679: Cigarette with ventilation channels--between wrapping and strip with removable blocks at different distances from end. Assigned to Philip Morris Inc. (1979).

#### UNITED STATES

U.S. 3,220,418: Ventilated cigarette. No assignee noted (1965).

U.S. 3,240,213: Cigarette (with ventilated tip). No assignee noted (1966).

U.S. 3,283,762: Aeratable cigarette. No assignee noted (1966).

U.S. 3,394,708: Cigarette with air dilution means. No assignee noted (1968).

U.S. 3,410,274: Cigarettes. Assigned to Imperial Tobacco Company (of Great Britain & Ireland) Ltd. (1968).

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- U.S. 3,410,275: Cigarette filter. No assignee noted (1968).
- U.S. 3,441,028: Apparatus for and method of removing condensible compounds from smoke. No assignee noted (1969).
- U.S. 3,482,579: Filter cigarette having a permeable band wrap. Assigned to Imperial Tobacco Company (of Great Britain & Ireland) Ltd. (1969).
- U.S. 3,490,461: Cigarette ventilation. Assigned to Philip Morris Inc. (1970).
- U.S. 3,511,247: Smoking product and method of making the same. Assigned to Philip Morris Inc. (1970).
- U.S. 3,512,537: Adjustable aerated cigarette. Assigned to U.S. Remedy Corp. (1970).
- U.S. 3,606,892: Delayed ventilation cigarette. Assigned to Philip Morris Inc. (1971).
- U.S. 3,631,864: Cigarette filter. Assigned to R. J. Reynolds Tobacco Co. (1972).
- U.S. 3,631,867: Smoke filter. Assigned to R. J. Reynolds Tobacco Co. (1972).
- U.S. 3,701,353: Cigarette perforating apparatus. Assigned to Philip Morris Inc. (1972).
- U.S. 3,705,588: Degraded resin coating--for ventilated cigarette wrapper allowing dilution of drawn smoke. Assigned to Philip Morris Inc. (1972).
- U.S. 3,707,975: Filter cigarette having apertured band. Assigned to Imperial Tobacco Ltd. (1973).
- U.S. 3,739,785: Cigarette with coated wrapper ventilation flaps. Assigned to Philip Morris Inc. (1973).
- U.S. 3,742,963: Cigarette perforating device. No assignee noted (1973).
- U.S. 3,805,799: Cigarette ventilation achieved with coated wrapper. Assigned to Philip Morris Inc. (1974).
- U.S. 3,805,800: Ventilated filter tip cigarette. Assigned to Brown & Williamson Tobacco Corp. (1974).
- U.S. 3,924,643: Ventilated filter tip cigarette. Assigned to Brown & Williamson Tobacco Corp. (1974).
- U.S. 3,957,064: Smoke diluter to facilitate giving up smoking--has aperture tubular diluting body with ribs guiding it in metal sleeve. Assigned to D.J.M.C. Mestre (1976).

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- U.S. 4,023,576: Cigarette mouthpiece for controlling flow--has chamber with baffles at inlet, orifice and grooves in body to draw in dilution air. Assigned to Liggett & Myers, Inc. (1977).
- U.S. 4,094,324: Perforated cigarette tipping paper. No assignee noted (1978).
- U.S. 4,127,025: Ventilated cigarette with tobacco and filter end--has perforated filter envelope to provide leakage path into wrapping near filter end diluting inhaled smoke. Assigned to Molins Ltd. (1977).
- U.S. 4,219,030: Filter construction for cigarette--includes peripheral annular groove to allow ingress of air to filter body to dilute smoke. Assigned to Liggett Group Inc. (1979).
- U.S. 4,237,908: Filter-tip cigarette manufacturing process--divides paper by rotary knife to form gap proportional to desired smoke dilution. Assigned to SEITA (1979).
- U.S. 4,256,122: Ventilating filter for cigarette--is porous cylinder with straight or helical grooves along longitudinal periphery covered with impermeable envelope. Assigned to Brown & Williamson Corp. (1980).
- U.S. 4,273,141: Smoke filter for cigarette--includes filter body with cavity and holes in wrapper for admission of extra air. Assigned to J. Van Tilburg (1980).
- U.S. 4,294,265: Filter cigarette with inlet vent zones--has inlet vents in filter mouthpiece in two groups with distance between determining dilution draw-resistance. Assigned to Philip Morris Inc. (1981).
- U.S. 4,295,478: Tipping paper for air ventilated cigarette--with adhesive coating having void perforated areas. Assigned to RJR Archer Inc. (1981).

#### WEST GERMANY

- Offen. 1,226,017: Cigarette (ventilated). No assignee noted (1966).
- Offen. 1,226,473: Cigarette (ventilated). Assigned to Imperial Tobacco Ltd. (1966).
- Offen. 1,271,611: Cigarette (with ventilated mouthpiece). No assignee noted (1968).
- Offen. 2,943,561: Filter-tip cigarette--has connecting strip of highly porous paper with barrier layer keeping ventilation zone free. Assigned to Sihlpack AG (1981).

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